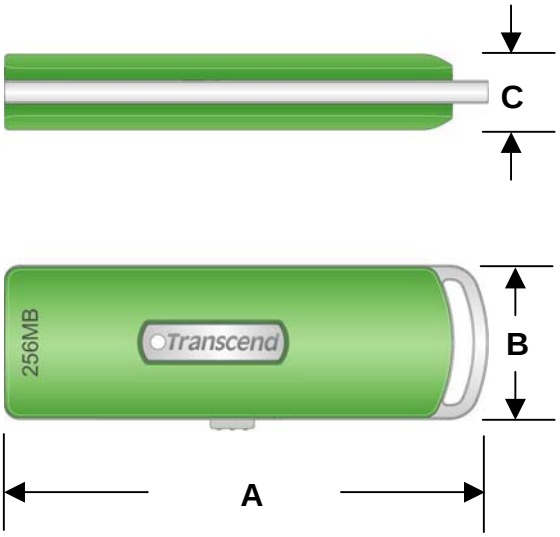
TS256MJF110

256MB USB2.0 JetFlash™

Description

TS256MJF110 is a 256MB USB Flash Drive with 1 pcs of 256Mx8 (or 2 pcs of 128Mx8) Flash Memory assembled on a printed circuit board.

Outline



Features

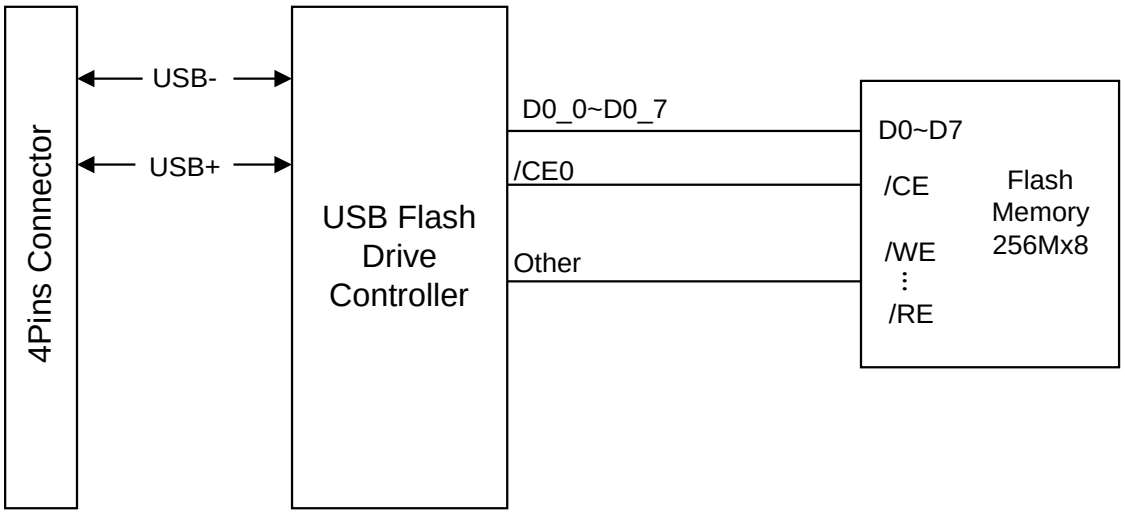
- Color: Green
- Elegant design with sliding USB connector
- USB 2.0 compatible, true Plug and Play
- Powered directly via the USB port. No external power or battery needed
- PC-Lock Function: Makes JetFlash110 the key to your computer
- Partition & Security Function: Partition JetFlash110 and create a private partition with password protection
- Boot-Up Function: Makes JetFlash110 a bootable device
- Recovery Function: Return JetFlash110 to its initial status
- LED indicates the usage status of JetFlash110

Dimensions

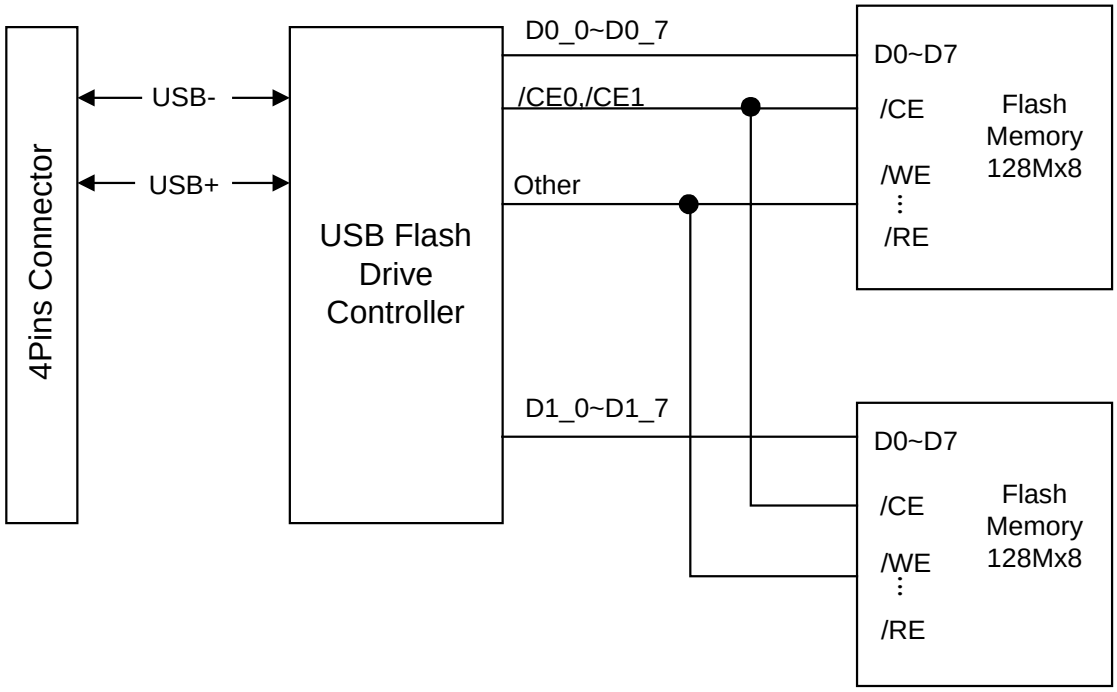
Side	Millimeters	Inches
A	64 ± 1.00	2.52 ± 0.04
B	21 ± 1.00	0.83 ± 0.04
C	10 ± 1.00	0.40 ± 0.04

Block Diagram

- **With 1 pcs of 256Mx8 Flash Memory**



- **With 2 pcs of 128Mx8 Flash Memory**



Pinouts

Pin No.	Pin Name
01	VCC
02	USB-
03	USB+
04	VSS

Pin Identification

Symbol	Function
USB-	USB differential signal:
USB+	The pairs are used to transmit Data/Address/Command
VSS	Ground
VCC	USB power input

Specifications

Environment		
Capacity		256MB
Temperature	Operating	0 ℃ to 70 ℃
	Non-Operating	-40 ℃ to 85 ℃
System Performance	Read	10 MB/sec (Max.)
	Write	8 MB/sec (Max.)
Power Requirement	Voltage	DC 5V ± 10%
Data Retention		10 years
Connector Durability		10,000 times
Erase Cycles		>100,000 times
Certificates		CE, FCC, BSMI

DC Characteristics

Symbol	Parameter	Min	Max	Unit
V_{IH_TTL}	TTL Input High Voltage	2	Vcc3+0.3	V
V_{IL_TTL}	TTL Input Low Voltage	-0.3	0.8	V
V_{OH_TTL}	TTL Output High Voltage	0.9Vcc3		V
V_{OL_TTL}	TTL Output Low Voltage		0.45	V
I_{OH_TTL}	TTL Output High Current	-4		mA
I_{OL_TTL}	TTL Output Low Current		4	mA
V_{IH_USB}	USB Input High Voltage for Low-/full-speed	2.0		V
V_{IL_USB}	USB Input Low Voltage for Low-/full-speed		0.8	V
$V_{I_USB_DIFF}$	Differential Input Sensitivity for Low-/full-speed	TBD		V
$V_{I_USB_CM}$	Differential Common Mode Input Range for Low-/full-speed	0.8	2.5	V
$V_{I_USB_HSSQ}$	USB High-speed squelch Input detection threshold	0.1	0.15	V
$V_{I_USB_HSDSC}$	USB High-speed disconnect Input detection threshold	0.525	0.625	V

Symbol	Parameter	Min	Max	Unit
$V_{I_USB_HSCM}$	USB High-speed Signaling Common Mode Range	-0.05	0.5	V
V_{OH_USB}	USB Output High Voltage for Low-/full-speed	2.8	3.6	V
V_{OL_USB}	USB Output Low Voltage for Low-/full-speed	0	0.3	V
$V_{OH_USB_HS}$	USB Output High Voltage for High-speed	0.36	0.44	V
$V_{OL_USB_HS}$	USB Output Low Voltage for High-speed	-0.01	0.01	V
I_{OH_USB}	USB Output High Current for Low-/full-speed	-10		mA
I_{OL_USB}	USB Output Low Current for Low-/full-speed		10	mA
$I_{OH_USB_HS}$	USB Output High Current for High-speed	-40		mA
$I_{OL_USB_HS}$	USB Output Low Current for High-speed		40	mA

AC Characteristics

Symbol	Parameter	Min.	Typ.	Max.	Unit
TP_{ILH}	Input Rising Delay	0.61 (0.8pF)	0.72 (2.4pF)	0.92 (4.8pF)	ns
TP_{IHL}	Input falling Delay	0.88 (0.8pF)	1.03 (2.4pF)	1.24 (4.8pF)	ns
TP_{OLH}	Output Rising Delay	2.40 (10pF)	3.42 (30pF)	4.88 (60pF)	ns
TP_{OHL}	Output falling Delay	2.61 (10pF)	3.62 (30pF)	5.03 (60pF)	ns
TR	Output Rising Time	2.26 (10pF)	4.45 (30pF)	7.83 (60pF)	ns
TF	Output falling Time	1.90 (10pF)	3.63 (30pF)	6.23 (60pF)	ns

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